

Title (en)

HYALURONIC ACID DERIVATIVES INTO WHICH CATIONIC GROUPS AND HYDROPHOBIC GROUPS ARE INTRODUCED

Title (de)

HYALURONSÄUREDERIVATE, BEI DENEN KATIONISCHE GRUPPEN UND HYDROPHOBE GRUPPEN EINGEFÜHRT SIND

Title (fr)

DÉRIVÉS D'ACIDE HYALURONIQUE DANS LESQUELS DES GROUPES CATIONIQUES ET DES GROUPES HYDROPHOBES SONT INTRODUITS

Publication

EP 3456745 B1 20210825 (EN)

Application

EP 17796238 A 20170511

Priority

- JP 2016095533 A 20160511
- JP 2017017954 W 20170511

Abstract (en)

[origin: EP3456745A1] The present invention provides hyaluronic acid derivatives into which a certain cationic group and a certain hydrophobic group are introduced, the hyaluronic acid derivatives including one or more repeating units represented by the formula (Ia) and one or more repeating units represented by the formula (Ib).

IPC 8 full level

A61K 31/575 (2006.01); **A61K 47/61** (2017.01); **A61P 1/02** (2006.01); **C08B 37/08** (2006.01); **C08L 5/08** (2006.01)

CPC (source: EP US)

A61K 9/006 (2013.01 - US); **A61K 31/575** (2013.01 - EP US); **A61K 47/36** (2013.01 - US); **A61K 47/61** (2017.07 - EP US); **A61P 1/02** (2017.12 - EP); **C08B 37/0072** (2013.01 - EP); **C08L 5/08** (2013.01 - EP US); **A61K 9/0043** (2013.01 - US); **C08L 2201/06** (2013.01 - US); **C08L 2203/02** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3456745 A1 20190320; **EP 3456745 A4 20200401**; **EP 3456745 B1 20210825**; JP 6893918 B2 20210623; JP WO2017195880 A1 20190322; US 11389539 B2 20220719; US 2019142959 A1 20190516; WO 2017195880 A1 20171116

DOCDB simple family (application)

EP 17796238 A 20170511; JP 2017017954 W 20170511; JP 2018517089 A 20170511; US 201716099770 A 20170511